

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: Andy Wallace <wallace@mc.com>
Subject: 3703 a bust, forgot about SS!
Message-ID: <9511051644.AA10801@kali>

Sorry to all that tried to contact me on 3703 around 02:30 last night. I forgot about the sweeps, and that's mostly what was going on. Nobody bothered to answer my "plain" CQ! John, WB50AU, I did hear you but apparently you didn't hear my reply even though I let the 2-NT push 65W. Your Ranger sounded good!

I also heard several minutes of mysterious yoopy tune-ups on the frequency -- is someone working on a Hartley or firebottle? Whoever you were, you were S-2 but didn't answer my "QRZ CHIRP?" <grin>

Have tried 21107 during the day; may try again later today. Went to check 10m as I was hearing DX on 15 -- danged cost-cut 2-C only covers the 28.5 - 29.0 10m segment without an extra crystal in the side socket! So much for 10m Novice band with that!

--Andy
wallace@mc.com

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: FRANCIS4@AppleLink.Apple.COM (Francis, Dexter)
Subject: 51S-1 Meter Questions...
Message-ID: <815612720.5773363@AppleLink.Apple.COM>

Greetings Y'all;

Can anyone provide me the details of the behavior of the meter on the 51S-1 during warm up and operation with the RF gain control turned all the way down?

At start-up it swings full right, and then slowly drifts left, but doesn't go all the way left or settle on any number that seems sensible, like "0" when the RF gain is all the way down.

What's the normal behavior of this beast?

-df

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: johnmb@nando.net
Subject: A4 paper bypass caps

Message-ID: <9511041303.AA18388@merlin.nando.net>

Hello Friends,

I am working on a late model 75A4 that works well on the low bands but is RF deaf on 11-10 meters. I noticed lurking inside, are an assortment of those dreaded tubular paper caps (13 of them or so?). While I am not sure whether they have any bearing on the problem I am starting to try and sniff out, what is the List Wisdom of a wholesale replacement of them? Having been with this list since week one, I know few topics are answered with total unanimity, some do have more of a consensus than others... hoping this is one of 'em.

Should I test 'em (I doubt any are shorted though..) and leave 'em in, or swap them out?

72/john wb5oau/4

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995

From: Dave Hockaday <wb4iuy@nando.net>

Subject: Re: A4 paper bypass caps

Message-ID: <9511041704.AA21022@merlin.nando.net>

>Should I test 'em (I doubt any are shorted though..) and leave 'em in,
>or swap them out?

>

>72/john wb5oau/4

HI John! While I've never owned a 75A4, my experiences with an old Hallicrafters SX-42 and a couple of old Hammerlund rx's taught me that one would be way ahead of the game by replacing them all. I have had multiple successive failures due to not having a cap massacre up front, heehee. Just my \$.02 :-)

73 de WB4IUY

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995

From: hawley@aries.scs.uiuc.edu (Chuck Hawley)

Subject: Re: A4 paper bypass caps

Message-ID: <199511041722.LAA27439@aries.scs.uiuc.edu>

>

> Hello Friends,

> I am working on a late model 75A4 that works well on the low bands

> but is RF deaf on 11-10 meters. I noticed lurking inside, are an

> assortment of those dreaded tubular paper caps (13 of them or so?). While
> I am not sure whether they have any bearing on the problem I am
> starting to try and sniff out, what is the List Wisdom of a wholesale
> replacement of them? Having been with this list since week one, I know
> few topics are answered with total unanimity, some do have more of
> a consensus than others... hoping this is one of 'em.
>
> Should I test 'em (I doubt any are shorted though..) and leave 'em in,
> or swap them out?
>
> 72/john wb5oau/4
>

A friend of mine (N4VMY, Bill) has done a number of 75A4's and recommends wholesale replacement of these....you can look at the grid of the plate to grid coupling caps and you should not find any positive voltage on the grid. If positive, then the cap is leaking. I had a 75A4, sold it to Bill and he replaced all the coupling caps. I had thought that it sounded ok, but really didn't know why everybody was so in love with the radio. He told me that after he changed out the paper caps he knew that I had no idea how a 75A4 really sounded. I had some kind of problem too, can't remember just what, might have been a marginal notch or something, but I didn't seriously think that I should have changed all the caps. I now wish I had done that....why not?
Chuck, KE9UW

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: johnmb@nando.net
Subject: A4 problem solved.
Message-ID: <9511042343.AA21712@merlin.nando.net>

A suggestion from Dave (W3BJZ), among others, and some staring at the schematic led me to think about a 24 uF padder in the RF stage. I couldn't get that stage to peak, and that cap is common only to the three trouble positions (10m (A), 10m (B) , and 11m). Hmmm....

I was going to replace it, as it was one of the red silver micas reputed to be unreliable, but decided first just to reflow one of its solder joints that looked suspect. Volia! Where once the CAL signal was S-0 on all three bands, was now a nice S9+ tone. Whether the joint was actually bad, or the heat just opened up a shorted cap, I dunno, but I was able to peak and align the thing for the first time.

S/N 5244 lives!

This list is great....
/john

wb5oau/4

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: Dave Hockaday <wb4iuy@nando.net>
Subject: Re: A4 problem solved.
Message-ID: <9511050031.AA29041@merlin.nando.net>

>S/N 5244 lives!
>
>This list is great....
>/john
>
>wb5oau/4

This list rules!
de WB4IUY

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: Sandra L Knepper <slkst29+@pitt.edu>
Subject: Re: A4 problem solved.
Message-ID: <Pine.3.89.9511042103.A28535-0100000@unixs7.cis.pitt.edu>

Glad to hear that you found your problem. I, too, have bad solder joints in Collins sets that may have not been suspect when assembled but later became highly resistive. Normally, there was a dab of red dye on each solder joint to indicate that the connection had been soldered. I remember once having a Collins set that had a connection without any solder. Who is perfect?

The "test" of a good 75A-4 is to disconnect the antenna and, then, place your finger on the antenna terminal. You should hear signals. I would submit that even with the antenna disconnected, you should hear signals, especially on the lower bands.

Thank you.

Dave, W3BJZ

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995

From: bill@texan.frco.com (William Hawkins)
Subject: Another feeding frenzy casualty
Message-ID: <9511041849.AA02527@texan.frco.com>

Went to the local antique radio swapmeet looking for tubes and parts.
The guy with NOS electrolytics had very little left with 450 volt
ratings. Seems they are now up in the \$20 price range. So it goes.

One guy brought some science fiction hardbacks from the seventys, so
it wasn't a total loss. Another seller had old records, and a record
player. The song "Cigareets and Whiskey and Wild, Wild Wimmen" was
heard through the room, then the record player was sold.

Bought an old ceramic lightning arrester - asked the seller if he'd
bet the house on it, and got a disclaimer. Later tried Radio Shack,
but they didn't know what I was talking about.

Bill Hawkins

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: paul Veltman <veltman@netcom.com>
Subject: Re: Another feeding frenzy casualty
Message-ID: <Pine.3.89.9511041122.A22564-0100000@netcom4>

> it wasn't a total loss. Another seller had old records, and a record
> player. The song "Cigareets and Whiskey and Wild, Wild Wimmen" was
> heard through the room, then the record player was sold.

>

And the \$64,000 question is:

Did the buyer buy that record player because he liked record players, or
to get rid of the music.

: -)

Paul WA6OKQ

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: USSAILIS@forum.phast.umass.edu
Subject: Antique electronic supply
Message-ID: <01HX969670KY8Y4Z90@oitvms.oit.umass.edu>

Where are they and where do I get a catalog?? Thanks.

Jim, W1EQO

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995

From: bill.sorsby@dlep1.itg.ti.com (Bill Sorsby)
Subject: Antique Wireless Auction
Message-ID: <199511050322.VAA27742@dlep1.itg.ti.com>

I hope this isn't a duplicate, but I don't recall seeing this info here before, so here goes.

I just got my first copy of Antique Radio Classified, the November edition. In it are posted the results of the Antique Wireless Association Auction Sept. 6-9. I find the selling prices to be very interesting. If this is indicative of going prices I been paying too much.

Ameco TX-62, e \$30
75A3, e, \$275
Eico 720, vg, \$30
Hallicrafters FPM300 transceiver, e, \$55
HT-17, \$75
HT-32, e, \$40
HT-40 g \$20
R-46B vg \$50
S-20R vg \$30
S240 e \$30
S85 vg \$26
Sky Buddy vg \$52
SX-133 e, \$30
SX-17 w spkr vg \$185
SX-25 g, \$82
SX-28 w rack cabnt vg \$114
SX-42 vg \$200
HQ-140X vg \$105
HQ-170 \$65
SP-200 w ps g \$50
Harvey Wells Bandmaster w Z-match g \$65
DX-40 \$30
DX-60 w VFO vg \$30
DX-60B vg \$35
HR-10B vg \$32
HR-20/HX-20 combo e \$52
QF-1 e \$3
SB-301/SB-401 combo spkr mic cables e \$100
SB-630 vg \$16
Homebrew 6V6 40 m CW xmtr e \$70
Howard 430, no dial glass, vg \$50
BC-348 clean \$36
BC-348P meter added, modified to dual conversion \$42
National 7100B-supply, NT g \$40
Nat'l FB-7 less dial & coil sockets g \$80
HFC 5/10 m conv e \$325

HFS scruffy \$32
HFS w/coils orig carton, 6-V vib, PS, mint \$270
HRO coil sets, w/box, postwar, vg\$45
NC-270 rusty, f \$20
NC-46 dial glass bad vg \$28
SW-54 e \$26
DX-150A vg \$23
DX-160 w/spkr e \$48
WRL Globe Scout Deluxe vg \$50

Regards,
Bill Sorsby, N5BU bill.sorsby@dlep1.itg.ti.com
(ex WA50LS)

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: HAMRLUND@aol.com
Subject: Re: Antique Wireless Auction
Message-ID: <951104231537_13095202@emout06.mail.aol.com>

In a message dated 95-11-04 23:03:30 EST, bill.sorsby@dlep1.itg.ti.com (Bill Sorsby) writes:

>If this is
>indicative of going prices I been paying too much.

believe me, it's not.

robert

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: Andy Wallace <wallace@mc.com>
Subject: BA in "WINGS" sitcom?
Message-ID: <9511051647.AA10807@kali>

There's a Hallicrafters inside the office of the Wings TV show.
I don't watch the show but spotted it on a rerun. Wonder if they
did some research and got the VHF model? Looks like it could be
an S-20.

--Andy
wallace@mc.com

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995

From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: BA in "WINGS" sitcom?
Message-ID: <62510.ddillman@igc.apc.org>

On Sun, 5 Nov 1995 10:48:58 -0600 (CST),
Andy Wallace <wallace@mc.com> wrote:

>There's a Hallicrafters inside the office of the Wings TV show.
>I don't watch the show but spotted it on a rerun. Wonder if they
>did some research and got the VHF model? Looks like it could be
>an S-20.

I don't think they did *too* much research as I saw one of the actors
talking on that radio earlier this week!

Best Regards,

Dick Dillman/WPE2VT
<ddillman@igc.apc.org>
San Francisco

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: BOB.LIESENFELD@hamlink.mn.org (BOB LIESENFELD)
Subject: BOOTON RX METER
Message-ID: <815583637.AA04137@hamlink.mn.org>

Hi gang,
Anyone out there know anything about a Booton Radio Corp. type 250-A
.5-250 MHz R-X meter? This thing is full of tubes, but if it has a
useful function I'll find room for it rather than get out the
sidecutters. Thanks

72 Bob WB0POQ

---NoSnail v1.17

HAM>link< RBBS - Serving the Amateur Radio Community Since 1983

- 612/HAM-0000 v.34 Ham Radio Spoken Here!!
- 612/HAM-1010 v.32b Reply to sender @ hamlink.mn.org

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: rbiddle@MadVax.mo.ti.com (Richard Biddle)

Subject: Broadhead Garrett power supply
Message-ID: <9511050550.AA04764@MadVax.mo.ti.com>

More junk followed me home - a Broadhaed Garrrtt power supply. Same thing I had in the industrial electronics lab in high scholl. This is a model P-4 and puts out 0-400V/150ma, 0-100V/3ma, 6vac/12vac/3a, 5vac/3a, and 0-40v/2A. A great tinker toy for tube projects.

Brings back memories of the good old days learning about tubes one semester and transistors the next.

Now the hard part - anywhere to go for a schematic?

Thanks again,
Richard K5BWLH
rbiddle@madvax.mo.ti.com

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: David Josephson <david@josephson.com>
Subject: Bruel & Kjaer BA's
Message-ID: <199511040809.AA21886@jive.rahul.net>

Greetings,

Wonder if anyone else here is working with Bruel & Kjaer acoustic test gear from the 50's and 60's. It's fine stuff, mostly fixable (except early pieces with phenolic pc boards that have been left on forever, almost unsalvageable except by running new wire from every tube and power resistor pcb pad) and produces excellent results today. I make microphones, and the primary gear for the anechoic chamber system is B&K firebottle variety. Always looking for more for me and friends, have much to trade, also schematics, service info, etc.

Wants at this point are another 1013 BFO (200 Hz - 200 kHz), odd plug-in potentiometers for 2305 recorder, 4138 mics (1/8"), cables, drive shafts, connectors, etc.

--

David Josephson / Josephson Engineering / San Jose CA / david@josephson.com

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: Buy/Sell Restrictions

Message-ID: <9511021709.AA06551@bock.ih.att.com>

May I make a simple suggestion--

If you want to list a dozen or more items, restrict each item to a ONE LINE description, with invitation to email for further details. This would reduce BW and keep some postings from grating on anyone's nerves.

Other than that, let's have no restrictions. So far I've bought one major item, sold one, and bought lots of little parts and literature -- the small stuff being from the two major "offenders", BTW.

For all the reasons others have mentioned, I do not want to see the FS/WTB posts restricted (other than shrotened as I suggest).

BTW I have still not been "screwed" of stiffed in any dealings on this List. The service can be alittle slow but I'm the last one who should complain :-)
73, mike k w9nrd

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: Henry van Cleef <vancleef@bga.com>
Subject: Re: Capacitors - Paper-dielectric
Message-ID: <199511051820.MAA00442@zoom.bga.com>

As BHall88620@aol.com said

>

>

> If it was known around 1950 that wax-papers weren't all that great, when did
> the industry stop using wax-paper capacitors? Or to better phrase the
> question, when did a capacitor superior to wax-papers come out? Was there a
> better replacement available around 1950, or were recap jobs then just done
> with new wax-papers?

I'm not sure I've accurate answers to these questions, but do have some recollections from the 1945-60 period. There were always "better" capacitors than the wax papers. They cost more money. My Hallicrafters S-36A has zero wax paper caps and zero electrolytics in it. Someone like Dave Stinson, who collects WW II era military electronics can comment on the details of what's in that equipment, but my recollection is that "JAN spec" (Joint Army-Navy----"MIL" is from the 1948 realignment of the armed services) equipment used "postage stamp" and "bathtub" caps. The smaller values of "postage stamp" caps are mica, the larger ones use "paper," although I suspect the dielectric material was higher quality than used in the wax-impregnated jobs. The bathtub caps are in hermetically sealed cans, with a variety of dielectrics. Also, there were grades of wax paper caps,

which can be viewed as "cheap" and "expensive." The S-36A uses a number of ceramic dielectric caps. The early ones were made on ceramic tubes.

My recollection of repair parts inventories used by service shops after 1946 is that they had molded paper caps for replacement of the wax papers. These had a much better track record in the short term, although, as many of the postings here indicate, after 30-50 years, they are just as troublesome as the old wax papers. Disc ceramics, as I recall, were a feature of the early fifties. My HQ-150, which was built in 1956, uses disc ceramics, and has had 100% survival of the originals.

I have no real "handle" on the later users of wax paper caps. I have heard tales of wholesale recapping of late prewar radios, and it appears that this was related to original manufacturing quality as well as operating temperature. The real volume in service shop business was in vacuum tube replacement and replacement of early electrolytics, and if the faults went beyond this, the radio was considered a "dog." You'll see wax papers in mid-fifties boxes. There are several factors here. Cost is a big item---as long as wax papers were the cheapest that would do the job, they were used in low-priced stuff that was sold in "price-first" markets (the equivalent of K-mart and Wal-mart today). Also, if the manufacturer was primarily an assembler, light on in-house engineering capability, and they weren't dealing with a lot of warranty repairs, they would have stuck with the old technology until price clearly favored using the new. There is a good deal of wisdom in the "if it is working, don't fix it" adage. Remember that electronics of the early postwar period were generally built with the idea that five years was an adequate service life.

>

> And now the really scary question, will I have to redo my recap jobs of today
> 15 or 20 years down the road? In truth, no one knows...

>

Good question. But remember that the stuff we are discussing on the boatanchors list was not built in 1980 or 1975, which are your "15 or 20 years." We are talking about stuff that is two or three times that age, and that has been "stored" for periods like 15-20 years. I put "stored" in quotes, because the item may have sat in a barn with a leaky roof and been rained on for 20 years.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: andy@taligent.com
Subject: Early Radio Exhibit in SF
Message-ID: <9511041814.AA24740@turtle.taligent.com>

>From this morning's San Francisco Chronicle, somewhat abbreviated,

"Invention of Radio Celebrated in S.F.

100th birthday exhibit this weekend

San Francisco has celebrated the 50th anniversary of the end of World War II and the founding of the United Nations, but now comes another remembrance: the 100th anniversary of the first radio signal beamed by inventor Guglielmo Marconi.

The Radio transmission was one of the most significant inventions of the last century - and the progenitor for the telecommunications revolution of this century.

In 1895, Marconi, [...] successfully sent a signal for a distance of more than a mile.

An extraordinary exhibit of early-days radio equipment will be on display this weekend only, from 10 a.m. to 6 p.m. at the Palace of Fine Arts Theater on Lyon Street.

It will be the only showing on the continent of the historic but seldom seen Cremona Collection - featuring more than 100 rare and exquisite antique radio instruments and artifacts assembled by General Francesco Cremona, a retired veteran of the Italian Army Signal Corps and authority on the history of worldwide military communications.

San Francisco has been designated as the site for this prestigious collection because of Marconi's special relationship to the Bay Area and its role in the early development of radio technology."

The article goes on to note that Marconi completed stations in 1914 near San Francisco that were used for communications with Hawaii and Japan.

Now, if only I had time to go see the exhibit.

-- Andy Heninger andy@taligent.com

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: howellh@acad.winthrop.edu
Subject: Eico Update
Message-ID: <95110506131493@acad.winthrop.edu>

WINTHROP UNIVERSITY

Electronic Mail Message
Date: 05-Nov-1995 06:05am EDT
From: Haney Howell
HOWELLH
Dept: Mass Communication
Tel No: 323-4534

TO: Remote Addressee (_smtp%"boatanchors@theporch.com")

Subject: Eico Update

The 720 is now up and running, once I bothered to check the 50K resistor that was now somewhere around 3.3Megs! Self oscillation ceased. I've gone through a fist-full of crystals (which all work in other transmitters) and have only found two that will work with the 720. Also tried to use the VFO from the DX-60, but it won't drive the 720. Anyone with thoughts here? Anyone with a 733 VFO?

The chilly weather has dampened the "wonder why I put this one on the shelf" spirit, not to mention the XYs breaking the bulb in my magnification lamp on the bench. "Well, dear, I stored the Christmas boxes above your workbench because it is easier to stand on the bench and reach into the rafters". Yes, Virginia, the Three Wise Men survived the fall... but not the lamp!

Haney no2n howellh@winthrop.edu

+++++

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: FRANCIS4@AppleLink.Apple.COM (Francis, Dexter)
Subject: For Sale Postings Suggestion
Message-ID: <815517970.8081873@AppleLink.Apple.COM>

Whoa, Nellie!

I thought y'all were analog guys. The reaction to the "For Sale" posts and administrative response feel real BINARY to this RX.

I thought the reason for the BA.WANT.FORSALE list (did I get the name right?) was exactly so that folks could post and browse off line. My sense is that

Jack doesn't want multiple postings or long lists and I don't disagree with that (in general) so why not put the big long lists on BA.WANT.FORSALE? and let the onesy-twoseies ride the regular postings?

Can't we self bias and apply some ALC and rectification here, gang?

-df

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: GDentHouTX@aol.com
Subject: GC Hamcon - Early BA report
Message-ID: <951104194226_81013196@emout05.mail.aol.com>

Fellow Anchorites:

WX was 1st real twinge of Winter we've had in S.TX thus far...I think I'll probably have the 1st fire of the season tonight(in the fireplace...not the bottles!). Rationalized standing outside freezing by figuring I would have been in a stand doing so anyway (opening day of deer season - don't know what that did for the turnout!) Sorta wish I had sprang the extra fifteen for a table inside though! The categories are:

Missing in action: Xmitters!!!. Went trolling for SOMETHING to do 160M with my R-388 and came up empty. Not a Johnson to be seen (at least by me). No Drake TX/RX. No KWM's. Went early: Set-up for tailgate was at 6AM ... open for sales at 7. I piddled around the house for an extra cup of coffee and didn't get in till around 6:20. SP-600 I eyed was gone before I turned around. Spoke w/ OM who bought it ...\$ 150 (pretty nice, but funky unfinished aluminum case, did have NBFM adapt though). He also bought an NC-183 ... \$ 125 (just fair). Interesting trade of the day: Dentron Clipperton (scratched) for 51J-4 (unseen)! Went late: HRO-60 (w/A,B,C,D - fair)... \$ 300. Still there when I left (after lunch): 51S1 (WE,nice) ... \$ 600 (I MIGHTILY resisted temptation!). Surprised to see it still there. Loads of WE 30L-1 .. \$ 500. 32S-1 ... didn't see the price. 75A-4 ... pretty nice, but audio problems and no reduction tuning ... \$ 375. TR-4C w/AC &MS-4 ... \$ 175 (resisting once again, I've got enough challenges getting my KWM-2A going on CW!). TR-7 w/RV-7 ... forget the price. HQ-129-X, HQ-170 ... didn't see a price. Same OM who sold the SP- and NC- early still had these when I left along with SB-303/SB-401 ... \$ 200 (didn't look at them closely, but was told one had a busted meter). Clegg Apollo and 22'er ... price unseen, but clean. NCX-5 ... sorta funky, another unknown.

PLUS...the usual assortment of Kaypro, daisy-wheel printers and assorted junkie.

I'm sure I missed a bunch, there are folks better qualified to fill you in than I; I let my old ticket lapse and have been QRT for 22 years...WA5TVM was a lot easier to sign than KC5RN/AG...but I was happy to pass the 20WPM so

maybe will have something with less dah-dits in it soon! :-)
73 to ya'll, Gerald KC5RNX (ex-WA5TVM, soon to be...who knows?)
GDentHouTX@aol.com/73502.2273@compuserve.com

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: George De Grazio <hambrew@qadas.com>
Subject: Glowbugs

Hi, Jeffrey-
I was intrigued and very interested in the glowbugs concept. I've been looking for some good tube projects (especially recently for receivers), and you wouldn't believe (or maybe you would) how difficult it has been. Would you or any of the subscribers to this list be interested in writing even a very brief article for our mag regarding this or other home brewing subjects?
We'd also be glad to plug the list in the mag.
Would like to hear from you.
73,
George De Grazio, WF0K
Hambrew Mag.

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: David Stinson <72227.1640@compuserve.com>
Subject: Goodies For Grabs III
Message-ID: <951106001106_72227.1640_EHM169-1@CompuServe.COM>

Well, another Vegas swapmeet has come and gone and the pile of small parts from the bottom of the dusty old boxes I've bought is getting large again. You know I can't abide packratting, so it's time to have another Goodies for Grabs.

As always, the items are free to whomever needs them. I do ask for postage to be returned. If more than one person wants an item, Stephanie will draw a name. If you will, let me know what you're working on. It's nice to hear about it. Please send email to me and not the list. Address at the end of the goodies listing.

Collins Tube Shields
Collins make and marked "COL" (military Collins-make ID).
I believe they are pulls from a 51S1. One seven pin and

two nine pin shields.

Collins power knob.

>From a 51S1 or KWM-2, I believe. Have one.

Collins or Heathkit power or Acc. connectors.

One each 9 pin and 11 pin "octal-like" male plugs.

Two each 9 pin and 11 pin chassis mount female plugs.

Drake AC-4 connectors.

The female Cinch-Jones plugs from the AC-4 power supply.

I have three available.

Tubes, NIB:

(2) 866A, (5) 6AK5, (4) 6DK6, (1) 43

Bird 43 Wattmeter Slug.

100-250 Mhz, 10 Watts. Have one available.

NOS Replacement Axial-Lead 450VDC Electrolytics.

Never used. Corneil Doubleer (sp?) blue "Beaver" type. The kind used in thousands of BA power supplies.

I'm certain they will need to be reformed. NOS but not checked and some storage scuffs.

(4) 20 mfd 450 VDC

(9) 8 mfd 450 VDC

(1) 25mfd 50 VDC (cathode bypass)

and:

(1) Can-type two-section 8 mfd 450VDC, NOS no mfg mark.

(2) known good 10 mfd 600 VDC mylars in metal cans, about an inch square by two long. Great caps for an 807-6146 power supply.

Drake W4 Wattmeter manual.

With warrenty card and plastic SWR chart card intact.

Astatic Model 331 Hand Mike, good cord no plug.

Looks good. Type used in 50s-60s AM mobiles like the Gonsets. Black case, chrome top, nice red emblem. Switch good. Nice mike but I don't collect them. Didn't cost me anything so I'll pass along the favor.

Twenty FT-243 crystals.

Non-hamband. Mostly 6 MHZ. For people wanting the holders.

You can put little modern xtals inside when rebuilding your novice rig to look 1965 or so. You'll also get about 200 other sealed metal xtals, non-ham.

Consider it a favor to me...heh heh.

DM-64 Dynamotor with base.
For ground vehicular radios. 12VDC input.
Will take about \$5 to ship it.

Dynamotor/Keying unit for ABA-1 pre-WWII Navy IFF set.
Very nice shape. Will take about \$10 to ship it.

One thing I need: I'm building a 500VDC 250 mill supply and
need a good filter choke for the cap-input filter. Thanks.

That's it for this time. If you need any of these goodies,
please send email to 72227.1640@compuserve.com

TNX ES 73 DE Dave AB5S/7

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: rbiddle@MadVax.mo.ti.com (Richard Biddle)
Subject: HAL address
Message-ID: <9511050543.AA04732@MadVax.mo.ti.com>

I appoligize in advance for the non-true boatanchor question, although the
beastie does have one tube (a CRT:)).

Does anyone know where I might find a manual for a HAL Telereader
model CWR-6850. I picked one up at a local swap to hook to my
Hammarlund (gee I guess it really was a BA question after all).

I seems to do something, but it also seems to be a bit of a minor
antique compared to he new goodies, but it looked like a good project
for \$25US.

Thanks,
Richard KB5WLH
rbiddle@madvax.mo.ti.com

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Hambrew Magazine
Message-ID: <Pine.SV4.3.91.951103214648.9345A-100000@uhunix3>

If any of you folks have got a favorite design you wouldn't mind
sharing with Hambrew Magazine send off a letter to the writer
below. Remember, Publish or Perish. =:o

Jeff NH6IL

>From hambrew@qadas.com Fri Nov 3 15:19:18 1995
From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: SP600@aol.com
Subject: HAMMARLUND WANTED
Message-ID: <951105185100_13613385@mail02.mail.aol.com>

Hi fellow Boatanchors,

I am looking for some Hammarlund pieces for my collection. They are the COMET, COMET PRO (all variations) PRO-310, SUPER PRO 110 SERIES, HQ-105, HQ-205. If you have any of them and care to sell, please e-mail me with condition and price. You may also call 708-515-1836.

Many thanks,

Charles P. Jedlicka N9SOR

\\\\\\\\\\\\\\\\HAMMARLUND COLLECTOR\\\\\\\\\\\\\\\\\\\\

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: HRO clones & HRO wanted
Message-ID: <Pine.ULT.3.91.951103225857.18177E-100000@admin.aurora.edu>

Someone recently posted a note about having a Japanese manufactured clone of an HRO (WW2 vintage). I also had one of these and am REALLY sorry I ever got rid of it.

Thanks to Floyd, I have a few less gaps in my QST collection, and in the March 1946 issue, page 54, there is a photo of a German clone of the same HRO receiver. First time I was aware that any such thing existed.

Anyway, I am looking for an HRO-5 or HRO-W with coils, if anyone has one.

73 de Bob, K9EUI

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: Andy Wallace <wallace@mc.com>
Subject: I'll be on 3703 tonight.
Message-ID: <9511041527.AA10680@kali>

I have the Drake osky-latin' on 3703 kHz now, so I may try calling CQ on 3703 tonight after the Drake Net (0100-0230 UTC, 3865) is over with.

Call is KA1GTT, will be using the newly resurrected Eldico keyer and 2-NT/2-CQ/2-C.

See ya!

--Andy
wallace@mc.com

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: SJEVM5
Subject: Message from FENG at SJEVM5
Message-ID: <199511040750.BAA13089@uro.theporch.com>

Gone until November 13, 1995. Manager is Roy Jensen (408)256-3325/8-276-3325.
Or contact Tom Arnoldussen(6-1915)

The mail you sent has been archived.

This message was sent by the SAFE automatic machine: do not reply.

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: TOM.A.ADAMS@mail.admin.wisc.edu
Subject: On the air with Gertie
Message-ID: <FB4H0605.FB4H0619@mail.admin.wisc.edu>

to: boatanchors@theporch.com

Greetings, Hartley aficionados!

Well, Gallopin' Gertie has been on the air.

When you last tuned in to the soap opera, Gertie had developed a nasty note as soon as she was connected to an antenna. Addition of filament bypass caps, and a .01 mica plate bypass, cured that.

Wednesday night, while fooling around with the rig on about 3530 KHz, I let up on the key and was startled to hear "...K9T? K9T? de AA90A HOW COPY.. K". A quick 1 X 1 netted Gertie's first QSO. She got a 579C in Champaign, Illinois. Input was all of 4.5 watts, with perhaps 3 watts going to the 160 Windom, and part of THAT was lighting the flashlight bulb tuning indicator.

The next evening (Thursday) I was out hunting with the rig. After a CQ call

I heard "... K9TA IS IN THERE. HOW COPY? AR NA4G DE WS4S".

I got Conard about 579 and Bob about 569. Conard and I were able to exchange signal reports, but several attempts to raise Bob were unsuccessful. We had kinda interesting QRN levels, and the QRM was pretty heavy, so I'm not too surprised that Gertie wasn't being copied; frankly I was surprised that she was being copied at all!

I took a fast pass at the band on Friday, but wasn't able to stay; my second operator, Bozo the Wonder Dog, was at a dog show last week, and caught kennel cough. The poor pooch was pretty miserable and had to be cared for.

Just as a sidebar; I've gotta wonder about the folks on the dog show circuit these days, and what they're using for ethics. In the last two months my dog has caught highly contagious kennel cough, and on another occasion fleas, from OTHER show dogs. My other dog, Shane, was along to a show a couple of weeks ago, and is now on antibiotics for a chest infection (a serious matter for someone as elderly as him), and I suspect that he got it at the show. What kind of unprincipled idiot insists on showing his/her dog when the animal is sick or contagious? Better still, what in hell is the show vet doing to earn his/her honorarium? They're supposed to be screening the animals for health problems or parasite infestations before allowing them to compete.

Anyway... I learned a couple of things in the design and construction of Gertie.

Even tho the note is reasonably pure after the addition of bypass caps, it is STILL unstable; I'd say that if an Official Observer station hears it, the odds are about 50/50 that s/he'll write me a card.

The problem seems to be with my redesign of the basic Hartley oscillator circuit.

I made a couple of changes to make the rig safer, and to simultaneously limit tuning range (ie, trying to keep the sucker in the band!) and increase L/C ratio of the tank.

One of the changes made was the inclusion of a 250 pf mica cap across the tank circuit. I think this thing is changing value from RF current flow, causing the entire L/C tank to change frequency!

In addition, the plate, grid, and filament taps on the coil ALL have blocking caps, added to keep the DC potential of the tuning variable at or near ground. It appears that any or all of these caps, heating from RF current, can and will cause the rig to drift somewhat.

In short, I used too many capacitors in the rig! In doing so, I've undermined her stability.

Like innumerable Hartley rigs of the past, Gertie is gonna get revamped... again. Each rebuilding makes her a little bit better. Maybe this will be the LAST rebuild... and if you believe THAT one, I've got a bridge in Brooklyn I'd like to sell!

73's,

Tom, K9TA

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: n5off@w5ddl.aara.org
Subject: R-388 PTO Ageing
Message-ID: <219075@w5ddl.aara.org>

Gentlemen?

Exactly one year ago, I decided to tackle the PTO adjustment on my R-388.

At that time, the PTO output was about 993 KCS in ten turns of the knob. Since the adjustment screw was at the end of its range, I had to go into the can and chop one turn off of the adjustment coil to enable me to pull the thing in.

Knowing that these things all seem to be low in kcs output, I suspected that mine would further move lower after adjustment, and since they are such a darn bugger to adjust on the 388, I decided to lead mine a little bit when adjusting it, soxxxx sort of like you do when buying shoes for a kid.

When I finished adjusting the PTO, I settled on an output of 1001 KCS in ten turns (the proper output is exactly 1000 KCS).

Well xx after having carefully measured and recorded the results one year ago, I can report that the PTO has aged somewhat, and its present output is 999.9 KCS in ten turns. In other words, the output has decreased by 1.1 KCS in ten turns in the last year.

I've heard that some rigs are different and don't behave this way, but if yours has a tendency to move like this, you may want to consider giving it a tad more output than 1000 KCS in ten, unless you love the process of removing the panel on the 388.

The 390(A) family is much easier to adjust, so I set those right on the money. But in a year or so, I'm going to have to go back into the 388 and give it a couple more KCS output. Gives me a purpose on the planet.

73 de tom

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: merrigan@ee.ualberta.ca (Shaun P. Merrigan)
Subject: Re: R-388 PTO Ageing
Message-ID: <199511051841.MAA04915@uro.theporch.com>

On Sun, 5 Nov 1995 10:38:54 -0600 (CST) you wrote:

>Gentlemen?

>

>Well xx after having carefully measured and recorded the results one year
>ago, I can report that the PTO has aged somewhat, and its present output is
>999.9 KCS in ten turns. In other words, the output has decreased by
>1.1 KCS in ten turns in the last year.

>

There have been a couple of HSN articles about these spreading endpoints. In HSN #23 Dallas Lankford estimated the spread rate at about 1.5 kHz per year. There is also a lengthy article on the 51J series PTO in Ham Radio magazine (December 1969) by William Orr. In this article, Orr suggests that the powdered iron core of the main tuning slug is the culprit. He says that the core "ages" causing a downward shift in the entire correction range.

Is this actually the problem with these PTO's, or is there something else at work?

Does anyone have enough experience with ferrites to comment on their long term aging characteristics? Perhaps think about the result of moisture getting into the PTO can (safe to assume that the seal on many PTO's is gone and the dessicant is exhausted) and how this would affect the ferrite (or would it??)

The R390A PTO does not suffer from this problem, despite the numerous different manufacturers and the long span of manufacture.

Comments, ideas?? Let's kick this one around a bit.
Shaun P. Merrigan
merrigan@nyquist.ee.ualberta.ca

"I am an old man now, and when I die and go to Heaven there are two matters on which I hope for enlightenment. One is quantum electrodynamics, and the other is the turbulent motion of fluids. And about the former I am rather optimistic."

-Sir Horace Lamb, 1932

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: Dick Dillman <ddillman@igc.apc.org>
Subject: R390As for sale
Message-ID: <199511042329.PAA20706@igc4.igc.apc.org>

/* Written 8:39 PM Nov 2, 1995 by rmmiller@ix.netcom.com in igc:rec.radio.swap
*/
/* ----- "R390As for sale" ----- */

I am posting this list for Dave Sipe, KE6QFZ in Sacramento, CA. He can be reached through a shell account at dsipe@calweb.com.

1 ea Collins Mfg R390A with meters, dust covers, and in very nice shape
\$450 plus UPS

2 ea Stewart Warner Mfg. R390As with meters, dust covers and in very nice shape \$300 each plus UPS

1 ea EAC Mfg R390A with meters, no dust covers, nice shape, \$250 plus UPS

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: jproc@worldlinx.com
Subject: Racal RA1231 Receiver
Message-ID: <Chameleon.4.01.2.951103111920.jproc@>

Dear BA's,

A friend of mine who has no Internet access has requested assistance in locating a manual for a Racal RA1231 receiver. Can anyone help?

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: jproc@worldlinx.com  
Radio Restoration Volunteer  
HMCS Haida, Toronto Ontario  
~~~~~

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: TOM.A.ADAMS@mail.admin.wisc.edu
Subject: Re. "For Sale" posts
Message-ID: <FB4N2159.FB4N2210@mail.admin.wisc.edu>

to: boatanchors@theporch.com

It looks like I've missed something here by being off the list for the past week.

Well, everybody else has had thier say/tantrum/whatever about the latest policy statement on BA. Here's MY two cents worth.

I've got nothing against buy/sell postings. I've bought gear here, and sold it here. BOATANCHORS has been a great source for gear that I wanted, and I'd hate to see the ads gone.

For the past couple of months tho I've seen a distinct change in the nature of the ads here, and more and more they're turning into something I find distasteful.

It looks to me like a few of us have been abusing the system by using BOATANCHORS as a freebie advertising medium for basement businesses.

I've got no beef with the guy who posts occasionally to clear out a bit of excess gear. I do that myself. Likewise, I have very little gripe with the person who posts a long list maybe once a month, with SOME items being relisted from one posting to the next.

What I DO have a gripe with is people who adopt the "used car salesman" high pressure sell technique to thier stuff; people who list the SAME long lists of stuff day after day, with slight changes in list header, like ONLY A FEW MORE WIDGETS LEFT, BE SURE YOU GET YOURS. The implication on THAT one is that the same damned list is gonna keep reappearing day after day until the LAST widget is finally sold.

Believe me, that isn't gonna make you any friends among those who pay for thier netmail by the pound.

It's clear that the poster of such a list (and reposter, and re-reposter, ad nausium) considers his fellow BA participants to be nothing more than a gold mine to be worked, and worked hard, until the last possible profit has been squeezed out. I personally find that kind of treatment insulting; I don't consider myself to be a resource that's available for harvesting.

Hey, folks! Let's learn to take NO for an answer! If the stuff on your listing doesn't sell out when you post it Monday, the cure to the situation AIN'T to repost the same crap on TUESDAY, with new exhortations to buy it!

Face it; INTERNET is a VERY powerful means of selling stuff, and if it doesn't get jumped on almost immediately, it doesn't mean that no one saw it, it means that NOBODY REALLY WANTS THE DAMNED THING RIGHT NOW! The only thing you're doing with the frequent repostings is getting a lot of people PO'ed, and making the list look like a used car lot. Let the gizmo cool off for awhile, say a couple of weeks, and THEN try reposting.

Tom, K9TA

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: paul Veltman <veltman@netcom.com>
Subject: Sale of the Century.
Message-ID: <Pine.3.89.9511040949.A22929-01000000@netcom9>

In going through the morning mail, I see that the very expensive KW-1 is down to the bargain basement price of only \$8500 or some such. Down and down she goes, and where she stops, nobody knows. In the same vein, there was another post recently about an SX-28 for sale for "best offer over \$500." A real bargain for a great \$100 radio.

I was watching Wall Street Week last night, and the guest was the Managing Director of Delphi Management out of Boston, a Mr. Black, as I recall. In the intro, he was introduced as an "art collector". One of the panelists asked him about investing in art. His response was one to which ALL of us should pay heed. His response was that you should buy art because you love the particular work, not because you anticipate future increase in value. I submit to you that we should view boatanchors in the same manner.

73

Paul WA6OKQ

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: HAMRLUND@aol.com
Subject: Re: Sale of the Century.
Message-ID: <951104212605_13027410@mail04.mail.aol.com>

In a message dated 95-11-04 12:56:19 EST, veltman@netcom.com (paul Veltman) writes:

> In the same vein,
> there was another post recently about an SX-28 for sale for "best offer over \$500." A real bargain for a great \$100 radio.

It sure was, since it had been restored by Antique Radio Repair & Restoration of CT., which was not cheap (\$650.00) and the pm 23 had been re-coned, and the radio and speaker cabinets looked like new.

and it didn't last long. and sold for \$900.00. BTW: it was an SX-28A as marked on the front panel, NOT an SX-28, that sold for \$350.00 with a pm-23. so if your going to rib someone about thier post, keep the facts straight. thanks. :-)

So it is as you said, you buy it because you love a paticular piece. which i think is all any of us does.

robert

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995

From: Henry van Cleef <vancleef@bga.com>

Subject: Re: SB-34 (was Re: First solid-state rig

Message-ID: <199511040503.XAA22645@zoom.bga.com>

As Bill Sorsby said

>

> Greetings.

>

>

> SIDEBAND ENGINEERS

> An operation of

> Raytheon Company

> So. San Francisco, Calif

>

> To me this explains their lack of innovation in subsequent products. A sad
> end for an originally innovative electronics company. But, probably just as
> well, they could never have been cost competitive with Japanese electronics
> in the '70's

>

Well, I think this is a bit of a kick where one isn't really justified.

If you will take a look at the small print, you'll find the same information on:

Amana refrigerators and microwave ovens

Caloric stoves

Beech airplanes

Cossor magnetics

Raytheon has not always come up a winner with its acquisitions---witness Belmont Radio and Television, and Packard-Bell Computers. Both were converted to the Raytheon name, which the examples given above were not.

In general, Raytheon's acquisitions have left their management structures, policies, and lines of business in place. In the case of

Amana, acquisition by Raytheon meant access to capital needed for expansion and to the microwave oven technology.

Unfortunately, all too often, acquisition by another company or a conglomerate has meant conversion into a cash cow sweatshop, disinvestment, and disappearance of both the company name and product line. That has never been Raytheon's game.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: KC5IJD@aol.com
Subject: Re: SB-34 (was Re: First solid-state rig
Message-ID: <951104094429_97759369@mail04.mail.aol.com>

On the subject of SBE-34 type boatanchors, anyone here have a Davco DR-30? It was manufactured in the middle 60s. Though solid state, I would classify it in the same category as the Hammarlund HQ-215. It is one of those transitional sets.

I just acquired a beautiful one and wondered if any others out there have one as well. Would like to converse with anyone who does.

73

Joseph W Pinner
Lafayette, LA
KC5IJD
EMail: kc5ijd@aol.com

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: ross@hypertools.com (David Ross)
Subject: SELL: T-R relays
Message-ID: <199511041712.JAA12591@desiree.teleport.com>

I have a few T-R relays for sale. They are Dow-Key (Div. of Kilovac) P/N 60-230142, in very nice shape, removed from equipment, datecode in late 70s/early 80s. SPDT coax section with N connectors, plus external DPDT

contacts, 26 VDC coil. The NO and the NC contacts are both adjustable and the N connectors appear to have teflon insulators - contacts are gold, about 1/8" diameter.

Sell at \$35 each postpaid in the U.S. If you're interested, please reply directly to me.

Dave Ross KA6EPI ross@hypertools.com

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: Grant Youngman <gyoungma@gtetel.com>
Subject: Sideband Slicer Fun
Message-ID: <Chameleon.951104112505.gyoungma@gyoungma.gtetel.com>

Morning, everyone ..

I have spent this chllly Texas morning listening to 40/20 meter SSB on an HRO-60 newly enhanced wiht a Central Electronics Sideband Slicer. If any of you have been passing up the few available slicers at 'fests, etc., you ought to rethink that move. Its a revelation to hear full sounding sideband playing through the CE slicer and the HRO-60 audio. Still need to go into the HRO and slow down the AVC to a more reasonable level, but even as is it sounds good.

And to think that I had nearly decided to sell off the slicer since I finally located an HC-10 to go with the SP600. Oh, well. Guess this means I may also have to get the CE 20A sideband exciter on the air with one of the AM BA's doing duty as the shoes -- and that project was way down the list only yesterday ...

The real problem is finding a place to GO with all this stuff :-)

Grant

Grant Youngman -- NQ5T

WANTED: Hammarlund SPC-10

gyoungma@gtetel.com

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995

From: wier@bobcat.etsu.edu (Bob Wier)
Subject: Sola Constant Voltage Xfmer?
Message-ID: <v01530503acc20c7639c0@[192.43.199.81]>

Please forgive the following if it's off topic a bit -
I've posted in several USENET groups and drawn a blank.

I bought a Sola Constant Voltage Transformer NEW back in 1968 - it's rated at 125 watts, more or less - I think it was \$45 at that time. Anyway, I used it for awhile but stored it away. Recently it came to light again, but I find that after running for about an hour, the transformer core gets REALLY hot (like - can't hold your hand on it hot). This is with a test load of about 25 watts (110 volts).

Can anyone offer some pointers on what to check in this?
I'm assuming that short of an obvious short, it probably has something to do with drying caps or something similar.

Secondly, I had a MAJOR system crash here last week and lost some 1,500 back e-mail messages. I have some pending requests for xeroxes and so forth. Will anyone in the queue kindly drop me a note and remind me of whom gets what and relevant addresses.

THANKS & 73's de WB5KXh --

----- wier@bobcat.etsu.edu -----
keeper of the Motorola HC11, Photo-3d,
Overland-Trails, and ICOM radio mailing lists
No, I am NOT the drummer for the Grateful Dead!

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: Re: Sola Constant Voltage Xfmer?
Message-ID: <Pine.3.89.9511050225.C6652-0100000@indy1>

Hi, Bob & other BAer's!

About Solas--and I have been learning about Solas, since it looks as if one that went bad caused our fire--there are a couple of things to bear in mind.

First off, they *will* run plenty warm. In my experience, a typical Sola runs just over the "too hot to lay a hand on" line. Oh, not so hot you can't touch them and see how hot they are, but too warm to lean on for long. They run in (partial) core saturation, if I understand what Sola has to say about them, and that means heat. They need to be located where they will get plenty of airflow, and a fan wouldn't hurt.

Second, you can tell if a Sola has PCB condensers or not by the paint job: grey or silver Solas do, tan or brown ones don't. This is Hobson's choice, as they *are* hot enough to present at least a small fire risk.

The non-PCB-condenser ones use a quite volatile oil in the condensers; we suspect our fire started when a condenser with a faulty seal (?) "boiled over," squirting out oil which promptly burst into flames and ran down the inside of the power supply cabinet. So I wouldn't run one at home unless I had a good fire extinguisher handy (and maybe a *real* handy power disconnect), and *never* unattended.

The PCB ones present much less of a fire hazard if they ever do burn up. However, while PCBs are pretty innocuous despite all the bad press (not much worse than a bottle of strong bleach at worst, tis said), the combustion products--polychlorinated bifurans or PCFs--are *highly* toxic. Burn up something full of PCB oil in a commercial establishment and you'll have to seal up the building! That would be pretty terrible to have happen at home. Worse yet, it is likely that it is not overreaction to do so: one of the reasons PCBs got such a bad reputation was that the spill that caused the initial fuss contained a very small percentage of PCFs and at first analysis, it did not seem possible that the PCFs were the sole source of the damage. But later investigation pointed directly to just that; a little dab'll do ya. Ummm, disclaimer--Barry Ornitz can and likely will come up with better information about PCBs and PCFs.

The bottom line? Personally, I wouldn't have a Sola of any sort in my home. There is just too much risk. You can "regulate" line voltage pretty well with a decent voltmeter (expanded-scale ones are nice) and a Variac or one of the motor-driven Variac units with a little sensor/servo card (these should be showing up on the surplus market), and take care of transients with a simple conditioner--maybe an RC "snubber" and some MOVs across the line, followed by a single ferrite ring around *all* of the wires. The ferrite-ring choke makes the line running to the gear present a higher impedance to a spike than the MOVs do, a neat and simple trick. Even if you *do* pop an MOV, it's more likely to just blow the breaker; it's not going to spray you and your gear with flaming oil. But I'm known to be over cautious.

73,

--Bobbi

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: Nick England <nick@cs.unc.edu>
Subject: SX-43 + spkr
Message-ID: <199511051634.LAA07411@altair.cs.unc.edu>

***** PLEASE DO NOT REPOOND TO ME - CALL DOUG *****

SX-43 plus matching R-44 spkr (with manuals)
works fine, looks pretty good. Asking \$130.
call Doug Johnson K40JP 910/299-7602 (North Carolina)

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: Tek Scope
Message-ID: <199511042317.PAA02416@desiree.teleport.com>

>
>>
>>Below this line, instruments came originally with selenium rectifiers. If
>>the seleniums are still installed in the instrument, forget it, and keep
>>looking.
>
>
>Hi Stan,
>I own a 485, so my question os not about these scopes in particular, but
>is about the comment re: selenium rectifiers. What is your point regarding
>them? I know I have several pieces of BA gear with them... and I believe
>that their Magic Smoke is poisonous (at least that is what list-legend
>says) but I'd like to hear your reasoning for the above statement.
>
>Thanks very much for all your postings to the list. I find them very
>informative!
>Best
>/john
>
>

Hi John,

It's just my 30+ years of experience working with scopes that contain selenium rectifiers that causes me to make that statement. With age, selenium rectifiers develop some characteristic (high internal resistance?) that causes them to put out less and less rectified voltage.

Tek scopes depend upon having enough unregulated DC coming out of the rectifiers to make the regulator work properly. Also, Tek scopes of this vintage were specified to operate from 105 to 125 AC volts line voltage. I want mine to operate all the way down to 105, and they will, too, if the rectifiers aren't weak. The first sign of weak seleniums is the inability of the scope's power supplies to regulate at 105 volts line. (I use a metered Variac to set the line down there when I am testing a scope.) Later, as the seleniums age more, the scope power supplies won't regulate at 106. And so it goes, until they won't regulate at 115 at which point you scope is pretty useless.

The cure is to replace the seleniums with silicons and Tek made a lot of retrofit kits to do this over the years. The kit includes a wired subassembly and a set of simple Heathkit-like instructions to make the change. Some series resistance is added to the new silicon diodes since new silicon diodes put out more DC voltage than new seleniums did and leaving out the series resistance causes regulation problems on high line with silicons installed.

Since selenium rectifiers have not been used in Tek scope power supplies for about 36 years, it's a good bet that 99% of them are bad now. I still see an occasional scope that will work with seleniums at 110 VAC.

I hope this answers your question, John.

Stan W7NI@teleport.com

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: bill.sorsby@dlep1.itg.ti.com (Bill Sorsby)
Subject: Re: Tek Scope
Message-ID: <199511050941.DAA20545@dlep1.itg.ti.com>

My apologies for being late commenting on this thread.

>Today, buying antiques at hamfests, I'd have to say that any of the
>letter series Tek scopes (530-540 series) are hands-down winners. If I
>had my choice, I'd get the last of the model type. 547, 546, and 544
>have the widest bandwidth (50 Mhz), while 545B and 543B have simple
>vertical amplifiers and 30 Mhz. bandpass. 535A, 533A, and 531A are all
>15 Mhz. bandpass. All of these scopes have 6CM vertical deflection,
>simple vertical amplifiers, silicon rectifier power supplies. You'll
>need at least one plug-in. The CA dual-trace is probably the most
>popular, though it stops at 24 Mhz in the higher frequency scopes. A K
>will give you the full 30 Mhz in the 30 Mhz. scopes, and has the
>advantage of being very simple. To see 50 Mhz. on the 50 Mhz. scopes,
>you'll need a 1A1, which has the drawback of using nuvistors. You can

>mix-n-match to your heart's content. What's on my bench right now is a
>533A with a 1A1.

>

>The 545A was by far the volume seller of the 540-A series, and is a
>good scope. I put it down a little lower because it uses a distributed
>amplifier (lotsa tubes, all matched pairs) and only has 4CM of vertical
>deflection.

>

I wholeheartedly endorse the 547 as the scope of choice out of the lot recommended. I own two of the later 540 series scopes, a 547 and 549. Additionally, as a technician I spent many hours using also the 545 and 551 to troubleshoot equipment. By far my favorite of these is the 547. It's no coincidence I've kept one of my own at home for nearly 20 years. The difference between the 545 and 547 is far greater than be indicated by the specifications. The 545 is somewhat difficult to use because of it's triggering. (Maybe the Tek guys disagree here, but speaking as a user of many hours, I assure you that you will soon tire of trying to trigger a 545.) The 547's triggering is very stable easy to use single knob adjustment and apparently operates close to the bandwidth of the scope. Not true for the 545. Just setting trigger level on a 545 is a two knob proposition. I found myself having to continually readjust triggering when using a 545.

I also recommend the 549 (naturally). This scope has the additional capability of analog storage. While the 549 triggering is set up similarly to the 545's, in practice it seems to operate much better (probably because it's design is newer and incorporates refinements). I saw a 549 at a hamfest a week ago which seemed to be in very good condition and included the Tektronix cart for \$100.

The 551 is another special beast - a dual beam scope. I believe it's also an earlier design and comes in two pieces, the scope mainframe and the power supply. It's BIG and either needs to be on a cart or permanently stationed somewhere. It's kinda nice for true simultaneous display of events, but in practice is seldom needed.

Hope this helps.

Regards,

Bill Sorsby, N5BU

bill.sorsby@dlep1.itg.ti.com

(ex WA50LS)

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995

From: Lrware@aol.com

Subject: Re: Tek Scope's

Message-ID: <951104080548_12559899@mail02.mail.aol.com>

My .02 worth:

excerpt from Henry van Cleef:

>Something that Stan has brought up in the past the unwillingness of a
>lot of people to pay \$100 or \$150 for a scope that he has gone through
>and calibrated. Yes, you can buy 540-540 scopes and plug-ins at the
>hamfests for \$10 and \$25, bring them home and get to work on them. I
>have bought some of these, and I know exactly what I found inside.
>Keep in mind that Stan Griffiths has something like 30 or more years
>making Tek scopes work. I'd never enter a contest with him on how
>quickly I can debug a scope
end excerpt.

As someone who repaired and calibrated Tek scopes for years,
(mainly sand-state one's but the process is the same)
I can promise you a good Tek person is worth his weight in gold!
The skills to even know where to look take years to acquire.
Every Tek model & series has it's own "personality", and most require factory
test fixtures (not cheap),
to be set up right.
When someone like Henry or Stan offers to sell you a scope, you will get your
moneys worth.

DISCLAIMER: I've never met Henry or Stan, I just know a little about Tek
scopes.

Larry Ware
lrware@aol.com

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: unknown xtal?
Message-ID: <Pine.ULT.3.91.951104200313.5650A-100000@admin.aurora.edu>

One of my loves is crystals & frequency standards. I recently ran across
a strange beast that I could use some help on.

The unit is a cylindrical oven 2 1/2" dia by 4" tall - made by Premier
Research Labs (26 volts, 65 degrees C). The base is like an octal plug
but with 11 pins (what do you call that?).

Inside is what looks like a 9 pin miniature tube, only shorter than
most (like a 6al5 in height) that says "Western Electric type 423A".
Also inside the oven are a couple of Shallcross precision wirewound

resistors, and a very tiny can about 1/16 dia by 3/8 long that may be a sensor. That's all - no caps at all.

The glass of the 423A is rather dark but it looks like the leads come up thru a ceramic spacer the up to a small rectangular blob of grey material. Doesn't look like any xtal blank I have seen. Only 2 pins of the socket are wired so it can't be a tube.

Anyone have any idea what this 423A might be? I also would like to get a couple of the 11 pin sockets to mate with this thing (I have 2 of them) so if nothing else I will put known xtals in there and use the ovens insome standards.

73 de Bob, K9EUI

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: k7yha@ix.netcom.com (Richard H. Arland)
Subject: Wanted: S-38 RX
Message-ID: <199511050118.RAA20718@ix12.ix.netcom.com>

Anyone got a Hallicrafters S-38 (in good condx) that they want to part with?

e-mail to: k7yha@ix.netcom.com

73 es TU

rich K7YHA

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: BHall88620@aol.com
Subject: What model is the Hallicrafters radio on the AES cover?
Message-ID: <951103233956_97595523@mail06.mail.aol.com>

Just got my 1996 Antique Electronic Supply Catalog in the mail, and am finding myself fascinated by the Hallicrafters on the left hand side of the cover... (What a neat looking set!) Can anyone tell me what model it is?

I think I have got it bad... I am getting fascinated by pictures of BA's...

73,
Ben

BHall88620@aol.com * Insert clever signature here.

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: Bill VanAlstyne <bill@cruz.com>
Subject: Re: What model is the Hallicrafters radio on the AES cover?
Message-ID: <199511040541.AA15099@cruz.com>

At 10:42 PM 11/3/95 -0600, BHall88620@aol.com wrote:
>Just got my 1996 Antique Electronic Supply Catalog in the mail, and am
>finding myself fascinated by the Hallicrafters on the left hand side of the
>cover... (What a neat looking set!) Can anyone tell me what model it is?

According to the equipment list printed on the *inside* of the front cover,
it's an SX-88. ;-)

Bill N6FN
bill@cruz.com

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: Re: WTB: Drake 2B parts radio
Message-ID: <Pine.ULT.3.91.951103223318.18177D-100000@admin.aurora.edu>

On Fri, 3 Nov 1995, Jim Lockwood wrote:

> Gang,
>
> Recall my question of a week or so ago about a balky 40M Xtal in my 2B?
> Well, I've got another Drake 2B-related problem. This time I need either
> a parts radio or, more particularly, the preselector variable capacitor out
> of a parts radio.
> only dirtier.

etc.....

> Rats. I was sold a bill of goods. I bought a parts radio only to find that
> it really isn't. I've got a good mind to reveal the name of the BA member
> who sold it to me so no one else will get stung like I did. Stung? Yep.
> Now I gotta fix the darn thing. Like I really was looking for another
> project. Nope, it can't just sit on my shelf living the life of an organ donor.
>
> Jim - km6nk
>

Hey Jim, are you trying to say that if the radio had been properly
disposed of, like with sledge hammers, hand grenades, TNT, etc., you
would not have to fix it up? :-)

Bob, K9EUI

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Re: WTB: Drake 2B parts radio
Message-ID: <m0tBku9-000TsGC@spider.lloyd.com>

>> Rats. I was sold a bill of goods. I bought a parts radio only to find that
>> it really isn't. I've got a good mind to reveal the name of the BA member
>> who sold it to me so no one else will get stung like I did. Stung? Yep.
>> Now I gotta fix the darn thing. Like I really was looking for another
>> project. Nope, it can't just sit on my shelf living the life of an organ
donor.

>>

>> Jim - km6nk

>>

> Hey Jim, are you trying to say that if the radio had been properly
> disposed of, like with sledge hammers, hand grenades, TNT, etc., you
> would not have to fix it up? :-)

> Bob, K9EUI

>

Yep, that's about the size of it. If the shyster who suckered me into
buying this "parts radio" had done his job properly, this thing would have
permanently died. As it is, it not only has a pulse, but has the potential
for being a useful, productive member of radio society again.

:-)

Jim - km6nk

From boatanchors@theporch.com Sun Nov 5 00:50:00 1995
From: jschwart@ix.netcom.com (John Schwartzberg)
Subject: WTB: SW-3 parts
Message-ID: <199511041458.GAA10029@ix5.ix.netcom.com>

I'm looking for the following parts to complete resoration of a National SW-3:

Knobs - regen control and antenna matching knobs - similar to main tuning
knob on National BM type dial, I believe.

Resistor - 12,000 ohm wirewound tappable resistor - 25 watt or so?

Coils - any 60/70 series coils

Coil forms - any National 6 pin coil forms suitable for SW-3, SW-4, SW-45,
SW-54 coils

Thanks to any and all who can help.

John
N0GII

From boatanchors@theporch.com Mon Nov 6 00:22:00 1995
From: HAMRLUND@aol.com
Subject: WTB: WESTON MODEL 924 ACV METER
Message-ID: <951105184753_98674329@mail02.mail.aol.com>

Looking for the acv match to my weston model 924 ampmeter.
if you have a model 924 *AC* volt (0-250vac) & don't need it, drop me a line.
thanks
robert